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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the

application:

Listing of Claims:

1. (Withdrawn) A device for iontophoretic delivery of a drug to or into a tissue,

comprising an arrangement that prevents operation of the device at a current density

that is higher than a predetermined value, said arrangement including first means

responsive to a first data item, indicative of the surface area through which the current is

to pass, as to set the maximal current allowed at the surface area indicated by said data

item.

2. (Withdrawn) A device according to claim 1, further comprising second means, being

responsive to a second data item, indicative of the tissue to be treated, said first and

second means being responsive to said first and second data items as to set the

maximal current allowed at the surface area indicated by said first data item for treating

the tissue indicated by said second data item.

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3. (Withdrawn) A device according to claim 1, further comprising an arrangement that

prevents the continuous operation of the device for a time duration longer than a

predetermined time value, said arrangement including means responsive to said first

and/or second data item as to set the maximal duration of continuous operation in

accordance with the surface area indicated by said first data item and optionally also in

accordance with the tissue indicated by said second data item.

4. (Withdrawn) A device according to claim 1, including input means for manually

inputting data that is indicative to the surface area.

5. (Withdrawn) A device according to claim 1 comprising:

(a) a contacting member capable of contacting with the tissue a drug-containing

sponge, said contacting member being capable of transmitting a signal indicative of the

surface area of said sponge; and

(b) a receiving element, capable of receiving said signal and being in

communication with said first means.

6. (Withdrawn) A device according to claim 5, wherein said contacting member including

a transducer and said receiving element is a microprocessor in communication with said

transducer.

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7. (Withdrawn) A device according to claim 1, including a microprocessor programmed

with a table including predetermined values of maximal current as function of the

surface area or as function of the data indicative thereof.

8. (Withdrawn) A device according to claim 7, wherein said microprocessor is also

programmed with a table including predetermined values of maximal current as function

of the surface area and the tissue, or as function of the data indicative thereof.

9. (Withdrawn) A device according to claim 7, wherein said microprocessor is also

programmed with a table including predetermined values of maximal operation

durations as function of operation current and the tissue, or as function of data

indicative thereof.

10. (Withdrawn) A device according to claim 1, designed specifically for iontophoretic

administration of charged drugs to eye tissue, mucosal tissue, or internal tissue.

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11. (Withdrawn) A device according to claim 10 comprising:

- an applicator formed with a receiving portion adapted for holding a replaceable

sponge loaded with said charged drug and allowing contact of at least a portion of the

sponge with a surface of the tissue;

a first data input element, allowing to input thereby data indicative of the area of

said portion;

an electric current generating element, for generating currents not higher than a

predetermined value, being electrically coupled to said receiving portion such that the

current once generated passes through the sponge in a direction essentially normal to

said surface;

- a processor capable of determining said predetermined value in accordance with

the data inputted by said first data input element.

12. (Withdrawn) A device according to claim 11, further comprising a second data input

element allowing to input thereby the specific tissue to be treated and said processor is

being capable of determining said predetermined value in accordance with this data and

in accordance with the data indicative of the sponge's area.

13. (Withdrawn) A device according to claim 1, wherein said first means includes a

processor.

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14. (Withdrawn) A method for iontophoretically administering drug to or into a tissue,

comprising determination of a maximal allowed level of current density and preventing

application of current density above said maximal allowed level.

15. (Withdrawn) A method according to claim 14, wherein said determination is done in

consideration of the tissue's sensitivity to electric current.

16. (Withdrawn) A method according to claim 14 further comprising determination of a

maximal allowed duration of continuous current application to the tissue and preventing

the continuous application of current for time durations longer than said maximal

allowed duration.

17. (Withdrawn) A method according to claim 16, wherein said determination is done in

consideration of the sensitivity to electric current of the tissue to be treated and of the

current density applied.

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18. (Currently Amended) A sponge for iontophoretic administration of charged drugs to

a tissue of a subject, comprising:

a porous structure configured and operable to absorb and hold at least 30% w/w

of an aqueous solution[[s]] of a charged drug without dissolving or disintegrating, the

porous structure comprising a tissue contacting surface area of contact with the tissue;

and

a data transmitting module configured and operable to transmit data indicative of

one or more of sponge size and the tissue contacting surface area of contact of the

sponge with the tissue of the subject.

19. (Previously Presented) The sponge according to claim 18, wherein the transmitting

module is a chip.

20. (Previously Presented) The sponge according to claim 18, wherein the transmitting

module is coated with a water protecting coat.

21. (Previously Presented) The sponge according to claim 18, further comprising non-

hydrophilic polymer selected from the group consisting of a polystyrene, a

polymethacrylate, a silicone and a urethane.

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22. (Previously Presented) The sponge according to claim 18, further comprising a

hydrophilic substance having at least one functional group configured to associate well

with water molecules, the at least one functional group being selected from the group

consisting of a hydroxyl group, an ether group, an amide group, a thiol group, a

carboxylic acid group and an amine group.

23. (Previously Presented) The sponge according to claim 18, further comprising a

hydrophilic polymer selected from the group consisting of a crosslinked

hydroethylmethacrylate (HEMA), a polyethylene glycol, a crosslinked

polysaccharideand a protein, and a polyvinyl pyrrolidone.

24. (Previously Presented) The sponge according to claim 18, further comprising a

swellable hydrophilic-hydrophobic copolymer.

25. (Previously Presented) The sponge according to claim 24, wherein the swellable

hydrophilic-hydrophobic copolymer is a HEMA-methyl methacrylate copolymer.

26. (Previously Presented) The sponge according to claim 18, wherein the tissue is

selected from the group consisting of skin tissue, eye tissue and mucosal tissue.

27. (Previously Presented) The sponge according to claim 26, wherein the tissue is eye

tissue.

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28. (Previously Presented) The sponge according to claim 27, wherein the eye tissue is

a selected from the group consisting of sclera tissue and cornea tissue.

29. (Previously Presented) The sponge according to claim 18, further comprising a

micro transmitter.

30. (Previously Presented) The sponge according to claim 18, wherein the sponge is

produced by copolymerizing hydroxyl methyl acrylate and ethylene glycol

dimethacrylate.

31. (Previously Presented) The sponge according to claim 18, wherein the sponge

further comprises a charged drug.

32. (Previously Presented) The sponge according to claim 31, wherein the drug is

selected from the group consisting of an antibiotic, an antifungal agent, an anti-

inflammatory agent, a water-soluble steroid, an anticancer agent and a local anesthetic.

33. (Previously Presented) The sponge according to claim 32, wherein the drug is an

antibiotic.

34. (Previously Presented) The sponge according to claim 33, wherein the drug is

gentamycin.

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35. (Previously Presented) The sponge according to claim 18, wherein the surface area of contact is a substantially planar surface.

36. (New) The sponge according to claim 18, wherein when an electrical current is passed through the porous structure of the sponge, and the sponge is pre-loaded with the aqueous solution, the drug ejects from the tissue contacting surface area.